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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>                 DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>                 CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |   | ATTORNEY'S DOCKET NUMBER<br>ZIMR/0023   |
| INTERNATIONAL APPLICATION NO.<br>PCT/EP2004/002841   | INTERNATIONAL FILING DATE<br>18 March 2004 (18.03.2004) | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) to be assigned<br><b>10/550177</b><br>PRIORITY DATE CLAIMED<br>24 March 2003 (24.03.2003) |
| TITLE OF INVENTION CHARGED PARTICLE BEAM DEVICE WITH DETECTION UNIT SWITCH AND METHOD OF OPERATION THEREOF   |   |   |
| APPLICANT(S) FOR DO/EO/US Juergen FROSIEN  |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |   |   |
| 1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.<br>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.<br>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.<br>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).<br>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))<br>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> has been communicated by the International Bureau.<br>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).<br>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).<br>a. <input type="checkbox"/> is attached hereto.<br>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).<br>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<br>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> have been communicated by the International Bureau.<br>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.<br>d. <input checked="" type="checkbox"/> have not been made and will not be made.<br>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).<br>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). – UNEXECUTED<br>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).<br><b>Items 11 to 20 below concern document(s) or information included:</b><br>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.<br>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.<br>13. <input checked="" type="checkbox"/> A preliminary amendment.<br>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.<br>15. <input type="checkbox"/> A substitute specification.<br>16. <input type="checkbox"/> A power of attorney and/or change of address letter.<br>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.<br>18. <input checked="" type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).<br>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). |   |   |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

|   |              |  |         |                                       |                     |
|---|--------------|--|---------|---------------------------------------|---------------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.51)<br><b>10/550177</b>  |              | INTERNATIONAL APPLICATION NO.<br>PCT/EP2004/002841                               |         | ATTORNEY'S DOCKET NUMBER<br>ZIMR/0023 |                     |
| 20. Other items or information:   |              |  |         |                                       |                     |
| The following fees are submitted:   |              |  |         | <b>CALCULATIONS</b>                   | <b>PTO USE ONLY</b> |
| 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....\$300  |              |  |         | \$ 300.00                             |                     |
| 22. <input type="checkbox"/> Examination Fee (37 CFR 1.492(c))  |              |  |         |                                       |                     |
| If the written opinion prepared by ISA/US to the international preliminary examination report prepared<br>By IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....\$0   |              |  |         | \$ 200.00                             |                     |
| All other situations .....\$200   |              |  |         |                                       |                     |
| 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))  |              |  |         |                                       |                     |
| If the written opinion prepared by ISA/US to the international preliminary examination report prepared<br>By IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....\$0   |              |  |         |                                       |                     |
| Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO as an<br>International Searching Authority .....\$100  |              |  |         | \$ 400.00                             |                     |
| International Search Report prepared by an ISA other than the US and provided in the Office or<br>previously communicated to the US by the IB.....\$400   |              |  |         |                                       |                     |
| All other situations .....\$500   |              |  |         |                                       |                     |
| <b>TOTAL OF 21, 22 and 23 =</b>   |              |  |         | <b>\$ 900.00</b>                      |                     |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding<br>sequence listing in compliance with 37 CFR 1.821 (c) or (e) computer program listing filed in an<br>electronic medium) (37 CFR 1.492(j)).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof. |              |  |         |                                       |                     |
| Total Sheets  | Extra sheets | Number of each additional 50 or fraction<br>thereof (round up to a whole number) | RATE    |                                       |                     |
| - 100 =   | 0/50 =       |  | x \$250 | \$ 0                                  |                     |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date<br>of commencement of the national stage (37 CFR 1.492(h)).  |              |  |         | \$                                    |                     |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA   | RATE    | \$                                    |                     |
| Total claims  | 19 - 20 =    | 0  | x \$50  | \$ 0                                  |                     |
| Independent claims  | 4 - 3 =      | 1  | x \$200 | \$ 200.00                             |                     |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |  | + \$360 | \$                                    |                     |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |  |         | <b>\$ 1100.00</b>                     |                     |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |              |  |         | \$                                    |                     |
| <b>SUBTOTAL =</b>   |              |  |         | <b>\$</b>                             |                     |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest<br>claimed priority date (37 CFR 1.492(f)).  |              |  |         | \$                                    |                     |
| <b>TOTAL NATIONAL FEE =</b>   |              |  |         | <b>\$ 1100.00</b>                     |                     |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied<br>by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              |  |         | \$                                    |                     |
| <b>TOTAL FEES ENCLOSED =</b>  |              |  |         | <b>\$ 1100.00</b>                     |                     |
|   |              |  |         | Amount to be<br>refunded:             | \$                  |
|   |              |  |         | Amount to be<br>charged:              | \$                  |

10/550177

JC17 Rec'd PCT/PTO 21 SEP 2005

- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 20-0782 in the amount of \$ 1100.00 to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment of Deposit Account No. 20-0782/ZIMR/0023/AOP. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING** : Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.37(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

B. Todd Patterson

PATTERSON & SHERIDAN, L.L.P.

3040 Post Oak Blvd., Suite 1500

Houston, TX 77056-6582

  
SIGNATURE

Ari O. PRAMUDJI

NAME

45,022

REGISTRATION NUMBER

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Juergen FROSIEN

Serial No.: To Be Assigned

Filed: Herewith

For: CHARGED PARTICLE BEAM  
DEVICE WITH DETECTION  
UNIT SWITCH AND METHOD  
OF OPERATION THEREOF§  
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Int'l App.: PCT/EP2004/002841

Int'l Filing Date: 18 March 2004

Priority Date: 24 March 2003

Atty Docket: ZIMR/0023

MAIL STOP PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

## CERTIFICATE UNDER 37 CFR 1.10

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited on September 21, 2005 with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee," mailing label No. EV335476990US addressed to: MAIL STOP PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

01-21-05  
Date

Signature

## LETTER OF TRANSMITTAL

Enclosed for filing are the following documents:

- 1) Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371;
- 2) Copy of International Application as filed;
- 3) Copy of WO2004/086452 A2;
- 4) Information Disclosure Statement;
- 5) Preliminary Amendment;
- 6) Unexecuted Combined Declaration and Power of Attorney; and
- 7) Return Postcard.

Respectfully submitted,

Date:

Sept. 21, 2005

Ari Pramudji

Registration No. 45,022  
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